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April 13, 1959

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Subject: Miniaturized IF  
Amplifier Packages

Reference:   
Contract RD-107

DOC	1	REV DATE	2 APR 1960	BY	064340
ORIG COMP	056	REV	56	TYPE	01
ORIG CLASS	3	REV CLASS	26	REV CLASS	C
JUST	22	APPROV	2010	AUTH:	HR 70-2

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Dear Sir:

Pursuant to discussions with your cognizant Technical Representative and encouraged by results of previous investigations,  is pleased to submit the following quotation and attached technical proposal.

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We propose to design and construct two (2) Miniaturized IF Amplifier Packages. These Amplifiers will represent the results of previous work in the areas of ceramic resonators for frequency selectivity and miniaturized crystal filters.


The two amplifiers will be designed in such a way that they may subsequently be evaluated on a comparative basis with regard to physical size, immunity to environmental changes, bandpass and center frequency stability, battery drain, spurious responses, power gain, etc.. One amplifier will be designed for a single conversion receiver and will utilize the design technique recently developed for miniaturized crystal filters, in order to achieve the desired bandpass characteristics. The second amplifier will be suitable for a double conversion receiver and will, where appropriate, utilize ceramic transformers for selectivity and interstage coupling. In order that the second amplifier may be compared on an equable basis, the package will include both high and low IF amplifiers as well as local oscillator and mixer stages.

It is estimated that these efforts will require approximately eleven (11) months, beginning 1 July 1959 and ending 31 May 1960, as outlined on Pages 12 through 14 of our Technical Proposal.

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Contracting Officer-2-April 13, 1959


Attached as Exhibit "A" is our Analysis of Estimated Cost for quotation on a CPFF Basis, showing an estimated cost of \$49,374 and a Fixed Fee of \$4,000 for a total of \$53,374.

It is expected that this work will be unclassified and added as a new Requisition under our existing Contract # . In order to properly plan our manpower commitments, it is necessary to limit this proposal to sixty (60) days, therefore it will expire 16 June 1959. A written extension may be effected thereafter.


Should you desire further information or any clarification of this quotation, please contact me.

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Very truly yours,



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Exhibit "A"  
Technical Proposal~~SECRET~~

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